U.S. DEPARTMENT OF ENERGY ROCKY FLATS PLANT

Form 2.2A

Well File Copy

WELL DEVELOPMENT AND SAMPLING FORM

Recorder's Name and Title Randy Reichert - Field Tech.

Well ID 05391

Survey location coordinates. North _____ East _____ OU-2

Date this report 10/29/91 Date well installation ~~10/16/91~~ 9/26/91 Date well development _____

Well designation: A1 MW

Ground elevation. Est: _____ Survey _____

Screened interval: ~~18.5' - 33.5' [BMP]~~ 27.1' - 37.1' [BMP] Formation: _____

Measuring point (MP). Top of well casing/other: _____ Well stick up: 2.0 FT

35.14 FT DTW 11/27/91

Water level (below MP) Start: 35.49' End: 36.40 @ 1145 Hrs

Well depth (below MP): 39.25' + .31 = 39.66' Water elevation (BGS) _____

Method used to measure water level. ~~39.25' PK~~ Solinst Estimated recharge rate: _____

Volume of saturated annulus (assume 30 percent porosity): _____

Volume Calculation. (4.52 Ft)(0.66 gals) = 2.98 gals / Well Volume

Quantity of water used during drilling: _____

Depth of sediment (below MP)· Before _____ After _____

Development equipment. Grundfos Submersible Pump

Sampling equipment. N/A

pH meter No 910613285 Calibration. STDS @ 4.00 & 7.07

Specific conductance meter No. 89120360 Calibration. STD @ 1.00

FTU meter No 9102R1021 Calibration: N/A

Time	Pumping Rate gpm	FTU	pH	Temp. °C	S.C. umhos/cm @ °C	Cum. Vol. of H_2O Removed: Gallons	Cum. Vol. of H_2O Removed: Casing Vols.	Physical Description of Water
1105	—	over range	7.61	12.5	0.86	0	0	cloudy, Grey
1112	—	168	7.39	12.7	0.76	~~0.72~~	1	cloudy, clearing up
	Dry at 2.25 Gallons purged					~~5.50~~	2	(1.44)
1146	~~Added 1.92 Gallons to Slurry~~					~~8.65~~	~~3~~	(2.16)
	Added 3.84 Gallons to Slurry						4	
1128	—	63	7.35	12.7	0.75	1.44	~~2~~	clearing up more
1131	(Cannot take 3 Vol Parameters)					2.16	3	
1136	total Recovery = 6.0 gallons							
	Required recovery = 6.09 gallons. 0.09 gals not recovered.							

Comments 10/29/91 - Screened Interval not avail. ATT./KR

11/26/91 Obtained Borehole data sheet & able to record screened interval [BMP] & proceed with development/KR

11/27/91 Added DI Water = (Screen Interval + 2.0 FT) X 2 = 3.84

ADMIN RECORD

A-0U02-000185

U.S DEPARTMENT OF ENERGY ROCKY FLATS PLANT FORM GT.6A

OU2 ALLUVIAL

GROUNDWATER MONITORING WELL AND PIEZOMETER REPORT

PROJECT 4606 OU2 Phase II Alluvial Drilling
LOCATION Buffer 2
Date Completed 9-25-91 Original Depth 48.0'
Inspected By _____ Date _____
Checked By _____ Date _____

Page 1 of 1
Well No. 05391
Aquifer _____
Depth Interval _____

NOTE CENTRALIZER DEPTHS

Generalized Stratigraphy and Water Level

Elevation of top of surface casing / riser pipe.	
Height of top of surface casing / riser pipe above ground surface	-22' ~~-23~~ -20' MRM 11-25-91
Depth of surface seal below ground surface	3'
Type of surface seal Concrete	
I.D of surface casing	6 ~~5~~ in SSS 11-6-91
Type of surface casing: Steel 6" .152 Wall	
Depth of surface casing below ground	28'
I.D of riser pipe.	2 in
Type of riser pipe Sch 40 PVC Pipe	
Diameter of borehole	10 in ~~9 1/2 in~~ MRM
Depth of borehole	480 ft
Type of backfill Bentonite Grout	
Elev / depth top of seal	189'
Type of seal Bentonite Pellets	
Elev. / depth bottom of seal	220
Type of filter pack 16-40 Silica Sand	
Depth of top of filter pack.	22.0'
Elev / depth top of screened section.	25'
Type of screened section PVC SCH. 40	
Screen openings .010" 10 Slot	
I.D of screened section	2"
Elev / depth bottom of screened section	35.1'
Length of blank section	2.0'
Elev / depth bottom of plugged blank section	37.1'
Elev / depth bottom of sand column	~~N/A~~ 35.1' SSS 11-6-91
Type of backfill below observation pipe Bentonite pellets	
Elev / depth of hole	48.0'